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transferring heat from said X-ray source to said second heat exchanger directly via said annular path, said second heat exchanger being stationary relative to said first heat exchanger.

Claim 17 has been amended as follows:

C3 17. (Three times amended) A computed tomography apparatus comprising:

a gantry rotatable around a rotational axis;

an X-ray source and an X-ray detector mounted opposite to each other on said gantry, said X-ray source emitting heat during operation thereof;

a first annular heat exchanger disposed at said gantry having at least two heat exchange elements thermally conductively connected to each other, with at least one of said heat exchange elements being thermally conductively connected to said X-ray source for transferring said heat from said X-ray source; and

a second heat exchanger disposed in a thermally conductive path relative to said first heat exchanger, with said first heat exchanger transferring heat from said X-ray source to said second heat exchanger directly via said thermally conductive path and said second heat exchanger transferring said heat transferred from said first heat exchanger to an exterior of said gantry.

Claim 19 has been amended as follows:

C4 19. (Twice amended) A computed tomography apparatus as claimed in claim 17, wherein said first heat exchanger is rotatable around said rotational axis together with said gantry, and further comprising a plurality of inter-engaging annular guide devices for guiding an airstream, ^Dgenerated by rotation of said first heat exchanger and heated at said first heat exchanger, from said first heat exchanger to said second heat exchanger.

[Claim 20 has been amended as follows:]

20. (Twice amended) A computed tomography apparatus comprising:
a gantry rotatable around a rotational axis;
an X-ray source and an X-ray detector mounted opposite to each other on
said gantry, said X-ray source emitting heat during operation thereof;
a first annular heat exchanger disposed at said gantry and thermally
conductively connected to said X-ray source; and
a second heat exchanger disposed in a thermally conductive path with said
first heat exchanger, with said first heat exchanger transferring heat
from said X-ray source to said second heat exchanger directly via said
thermally conductive path, and said second heat exchanger being
stationary relative to said first heat exchanger.